

MINE PERMIT APPLICATION PACKET*

**Application I-002096
Proposed McGill Quarry
CCD Sod, LLC
Williamsburg County
Tax Parcels 45-049-005 and 45-049-013**

- 1) Application
- 2) Reclamation Plan

**information presented are the documents submitted by the applicant. This information may change with the technical review of the request. No decision has been made concerning this application.*



**Mining
Form
MR-400**

**S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL
BUREAU OF LAND AND WASTE MANAGEMENT
DIVISION OF MINING AND SOLID WASTE PERMITTING
2600 Bull Street, Columbia, SC 29201
Telephone Number: (803) 896-4261 Fax Number: (803) 896-4001**

**APPLICATION FOR A MINE OPERATING PERMIT
DHEC FORM MR-400 DATE VERSION ADOPTED 7/1/94**

"The South Carolina Mining Act," Sections 48-20-10 through 48-20-310, Code of Laws of South Carolina, 1976, as amended provides in part: "No operator may engage in mining without having first obtained from the Department an operating permit which covers the affected land and which has not been terminated, been revoked, suspended for the period in question, or otherwise become invalidated." (Section 48-20-60)

I. APPLICANT INFORMATION

1. Name of Company: CCD SOD, LLC

Check form of business entity: ☒ Corporation

☐ Partnership

☐ Limited Partnership

☐ Sole Proprietorship

2. Name of Proposed Mine: McGill Mine County: Williamsburg

3. Home Office Address: P.O. Box 527 28366
(Street and P.O. Box) (Telephone No.)
Newton Grove NC 910-385-4675
(City) (State) (Zip Code) (Fax No.)

4. Local Office Address: 316 Hines Road 29056
(Street and P.O. Box) (Telephone No.)
Greeleyville SC 910-385-4675
(City) (State) (Zip Code) (Fax No.)

5. Designate to which office Official Mail is to be sent (check one):

☒ Home Office

☐ Local Office

6. Name of company personnel and their title to be the contact for official business and correspondence: _____

Clark Wooten, Manager

7. Location of Mine: 316 Hines Road Greeleyville
(State or County Hwy No.) (Nearest Town or City)

8. Locate accurately on a county map, USGS 7.5' Topographic Map, or draw a detailed map to scale of: (1) how to get to your local office and (2) how to get to the mine (attach to this application).

9. If land is leased, complete the following: _____

A. Name of landowner: _____

Landowner's Address: _____

(Street and PO Box)

(City)

(State)

(Zip Code)

(Telephone Number)

B. Date lease became effective: _____

Date of lease termination: _____

Name of lessee: _____

RECEIVED

AUG 18 2015

II. GENERAL CHARACTERISTICS OF MINE:

1. Material(s) to be mined: Limestone

2. Mining Method:

A. List equipment to be used for mining and provide a brief description as to how the mine will be operated.

Track excavator & truck, or dragline & truck

B. Will there be a process plant located at the mine site within the boundary of the permitted area?

☒ Yes ☐ No If no, please provide a brief description of the plant equipment and function of the plant.

See attached

3. Do you anticipate blasting as part of the mining operation? ☒ Yes ☐ No If yes, provide the distance to the nearest inhabited structure not owned or leased by the applicant. Also, provide as an attachment to this application the names and addresses of all the owners of all structures within one-half mile from the nearest point of blasting during the life of the proposed mine. How will flyrock be prevented from being projected from the permitted area?

Blasting is not anticipated initially, but will be required at some point.

The nearest inhabited structure is over 1370 feet from the closest point of the pit.

4. Has this site been mined in the past? If so, please indicate the present condition of the land.

No

5. What is the expected maximum depth of this mine? Provide any additional information about the final depth of the mine that would be useful to the Department. (Example: Final depth of pit will be level to adjacent road, elevation above Mean Sea Level (MSL)).

Maximum planned mine depth is 65 feet below existing grade, or 2.0 feet MSL.

III. DETERMINATION OF PERMITTED ACREAGE, AFFECTED ACREAGE AND RECLAMATION BOND

1. Total acres for which permit is being requested:

256.1 Permitted acres owned by the operator

0.00 Permitted acres leased by the operator

Note: Permitted acreage should include the following: 1) acres of land to be affected (excavation, processing plant, stockpiles, etc.); 2) future area(s) to be mined and 3) land to be used for buffer zones around the affected land. The permitted area should be the property described in the LAND ENTRY AGREEMENT(S) (FORMS MR-600 OR MR-700).

2. Total affected acreage:

Acres

A) Area used for sediment control ponds 1.2

B) Area used for stockpiles of unprocessed minerals 0.0

C) Area used for spoil (overburden) banks, topsoil and disposal refuse (exclusive of tailings impoundments) 11.8

D) Areas used for on-site processing facilities and stockpiles of processed minerals 5.0

E) Areas used for tailings pond (waste material from mineral processing) 0.0

F) Area for access or haul roads 0.0

G) Area for excavation during the period of this permit

OR

If mining and reclamation are to be done in segments, state the size of each segment (acres) _____. Multiply the size of the segments by 3 and enter the resulting number. _____>

30.0

H) TOTAL OF 2A THROUGH 2G

48.0

3. Check acreage to be bonded: total affected acreage calculated from Section 2.

☐ 0.00 - 9.99 acres (bond amount - \$10,000)

☐ 10.00 - 14.99 acres (bond amount - \$15,000)

☐ 15.00 - 24.99 acres (bond amount - \$25,000)

☒ 25.00 + acres (bond amount - \$25,000 or greater)

Applicant may submit a reclamation cost estimate for mines that will affect greater than 25 acres. Estimate should be based upon requirements in Regulation 89-200 B.

4. Will this operation be covered by a blanket bond? ☐ Yes ☒ No If yes, please list your company's other permitted mining operations in South Carolina giving mine names, permit numbers and state the present reclamation bond amount on file with this Department.

5. Number of years for which this permit is requested. The requested number of years the permit is requested should coincide with the Schedule of Reclamation as proposed by the applicant in the RECLAMATION PLAN, (Form MR-500). 10 years

IV. PROTECTION OF NATURAL RESOURCES

1. Will there be a waste water treatment system at your mine site? ☐ Yes ☒ No
2. Will there be a point source discharge from your plant or mine requiring an NPDES Permit? ☒ Yes ☐ No
If yes, provide information as to how stormwater and groundwater will be managed?
3. Will there be air contaminant emissions from your plant or mine requiring an Air Quality Permit? ☒ Yes ☐ No
4. Do you anticipate pumping of groundwater? ☒ Yes ☐ No If yes, describe.
May be necessary to dewater pit from time to time
5. Will jurisdictional wetlands be affected, filled or altered in any fashion that will require a Section 404 Dredge and Fill Permit? ☐ Yes ☒ No
6. Are there any known cultural or historic sites located within the proposed area to be permitted? ☐ Yes ☒ No
7. Will any part of the permitted area be used as a solid waste describe how waste, trash, scrap metal material, garbage will be handled. ☐ Yes ☒ No
All trash will be placed in a "Dumpster". All scrap metal recycled.

*NOTE: For questions 1-7 that need additional space for explanations, please provide additional information on an attached sheet to this application.

8. Describe the wildlife or freshwater, estuarine or marine fisheries in the area of the mining operation. Also provide information about any ponds and/or streams that may be located in the proposed permitted area.

There are farm ditches to control drainage on the existing sod farm. Several interconnected "ponds" are used for the center pivoy irrigation system. These "ponds" will not be disturbed by the proposed mining operation. Main drainage ditches will not be disturbed. Please refer to the "Mine Maps" or drawings for more detail.

9. State the land cover and land uses on the permitted land area and contiguous tracts of land to the permitted land area.
The proposed permitted land area is currently a sod farm with some row crops (corn). Contiguous tracts are timberland (mainly pine) and other farmland.

10. Describe measures to be taken to insure against (1) substantial deposits of sediment in neighboring streams, rivers lakes or ponds; (2) landslides; (3) acid water formation and discharge. Attach any supporting documents (engineering designs, calculations, sediment & erosion control plan, setbacks, geotechnical information, acid prediction test etc.) to this application.

All runoff, process water, etc. will be directed into the mine excavation as indicated on the mine maps. Any water leaving the excavation will have had adequate time for any sediment load to settle. Landslides are not expected in this operation however, any potential landslide would be contained within the permit area. As this is a planned limestone operation there will be no acid water. Please refer to the mine maps or permit drawings.

V. SAFETY

1. Describe methods to be used during the time the mine operating permit is active to prevent physical hazards to persons and to any neighboring dwelling, house, school, church, hospital, commercial or industrial building or public road. If applicable, provide the zoning designation for the property to be permitted.

The proposed mining operation is remote from any of the above except Red Road, a county road that is not maintained by the county (planned to be upgraded by operator). The nearest occupied dwelling is over 1370 feet from the proposed 30 acre pit boundary. The property is in an unzoned area of Williamsburg County.

2. Describe methods to be used to prevent an adverse effect on the purposes of a publicly-owned park, publicly-owned forest, or publicly-owned recreation area. If any of these facilities are within one (1) mile of the proposed affected property, please locate on mine location map and the submitted U.S.G.S topographic map for this application.

None of the above are within one mile of the proposed permit boundary.

3. Describe measures to be taken for screening the operation from view from public highways, public parks or residential areas.

A minimum 50 undisturbed buffer is provided between the proposed operation and adjoining properties, including public roads. In addition on the mine side of the 50 foot buffer is a minimum 50 foot wide by six foot tall berm. Both the buffer and the berm will be vegetated to screen the operation from public view. Please refer to the mine maps or drawings for details.

VI. MINE MAP

1. Provide the U.S.G.S. topographic map(s) that contains the proposed mine site. The proposed permitted area should be outlined on this submitted topographic map.
2. Attach **two (2)** copies of a map of the site (referred to as the MINE MAP) that shows the following:
 - A. Outline of the area to be affected by mining during the number of years for which the permit is requested. See Section III, Question 1 on page 3 of this application form.
 - B. Outline of the permitted area that shows the buffers zones, future mine areas and areas to be affected by mining.
 - C. Outline of the planned pits or excavations for which your company has detailed plans. If your company has reason to believe that additional land may be mined in the future within the permitted area but is not feasible to show as planned excavations; indicate these areas as FUTURE RESERVES on this site map.
 - D. Outline of areas for the storage of naturally occurring soil that will be suitable for the establishment of vegetation in final reclamation.
 - E. Outline of planned areas for disposal of refuse, exclusive of tailings ponds.
 - F. Outline of planned spoil, overburden or other similar waste material disposal areas.
 - G. Locations of planned access and haul roads on the area to be affected.

H. Outline of planned tailings ponds.

I. Locations of sediment control pond(s) and other sediment control structures within the affected area. Outline of areas on which temporary or permanent vegetation will be established to control erosion during the mine operation.

J. Location and name (if appropriate) of streams, lakes, wetlands and existing drainage ditches within the area to be permitted. Use arrows to indicate direction of water flow in such streams and drainage ditches.

K. Boundary for the 100 year floodplain, where appropriate.

L. Outline of areas for stockpiles of unprocessed minerals.

M. Outline of area of previously mined land that will not be affected.

N. Outline of the area to be occupied by processing facilities including stockpiles of processed minerals if such facilities are to be an integral on-site part of the mining operation.

O. Show location of the two permanent survey control points.

P. A legend showing the name of applicant, name of the proposed mine, north arrow, county, scale, date of preparation and name and title of person who prepared the site map.

THE REQUIRED SITE MAP SHALL HAVE A NEAT, LEGIBLE APPEARANCE AND BE OF SUFFICIENT SCALE TO CLEARLY SHOW THE REQUIRED INFORMATION LISTED ABOVE. THE BASE FOR THE MAP SHALL BE EITHER A SPECIALLY PREPARED LINE DRAWING, AERIAL PHOTOGRAPH, ENLARGED USGS TOPOGRAPHIC MAP OR A RECENTLY PREPARED PLAT.

3. Provide the most recent county tax map that shows all contiguous land owners of the permitted mine site. Provide name and addresses of all land owners contiguous to the proposed permitted mine site.
4. Provide letter from an attorney attesting to (1) the ownership if the property, (2) ownership of the mineral rights and (3) that the applicant has the legal right to mine the proposed mineral resource on the property as described in this application.

We hereby certify that all information and details contained hereinabove, within any supporting documents and on the map are true and correct to the best of our knowledge. We fully understand that any willful misrepresentation of facts will be cause for permit revocation.

The applicant acknowledges that Section 48-20-130, Code of Laws of South Carolina, provides in part:

"Upon receipt of the operator's annual report or report of completion of reclamation and at any other reasonable time the department may elect, the department shall inspect the permit area to determine if the operator has complied with the reclamation plan, the requirements of this chapter, regulations promulgated by its authority, and the terms and conditions of this permit. Accredited representatives of the department at all reasonable times may enter upon the land subject to the certificate of exploration or operating permit for the purpose of making the inspection."

O.F. Patterson, III

Signature of Applicant/Operator or his Authorized Representative

O.F. Patterson, III, Agent for CCD Sod, LLC

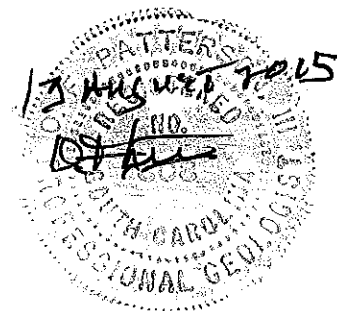
Printed Name of Applicant/Operator or his Authorized Representative

AGENT

Title

13 AUGUST 7 2015

Date



Department Use Only

Application No.: _____ Date Application Approved: _____ Date Bond Rec'd: _____

Bond Amount: _____ Blanket or Single Bond Permit Issuance Date: _____

ACTION TAKEN ON THIS APPLICATION

_____ Approved _____ Denied _____ Approve with additional Terms and Conditions

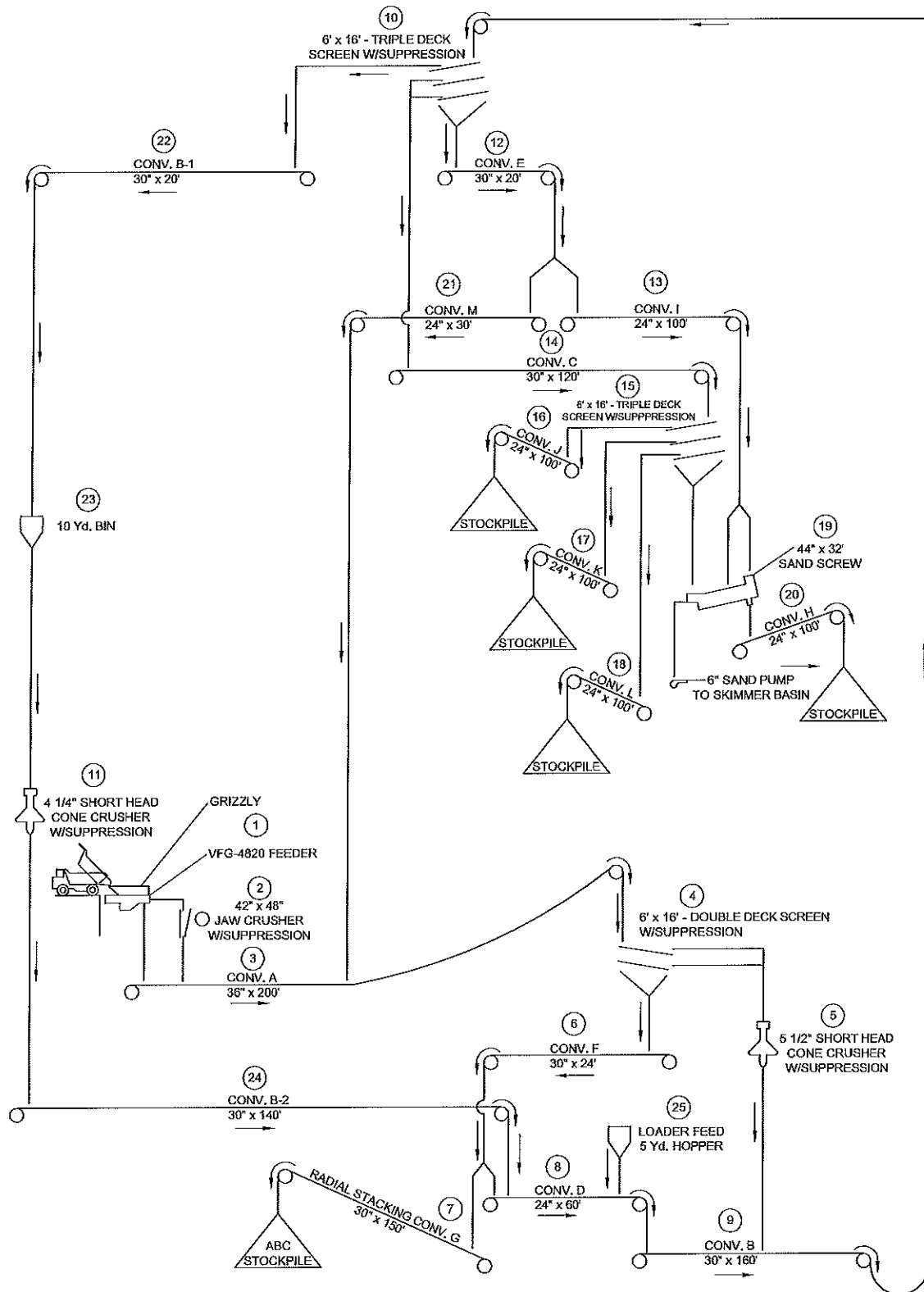
By: _____
DIVISION DIRECTOR

Date: _____

CCD Sod, LLC
McGILL MINE

Equipment List

Equip ID	Equipment Description	LTF Number	Maximum TPH	Date Made	NSPS Status	VE Test Date	VE Test Submitted
	Feeder Hopper/Grizzly	Grizz	NA	PLANNED, NOT YET INSTALLED			
1	VFG-4820 Feeder	F-90	NA	PLANNED, NOT YET INSTALLED			
2	42" x 48" H-R Jaw Crusher	CR-1	542	PLANNED, NOT YET INSTALLED			
3	36" x 200' "Conveyor A"	C-A	1245	PLANNED, NOT YET INSTALLED			
4	6' x 16' Double Deck Screen	S-1	1245	PLANNED, NOT YET INSTALLED			
5	5½' Shorthead Cone Crusher	CR-2	447	PLANNED, NOT YET INSTALLED			
6	30" x 24' "Conveyor F"	C-F	427	PLANNED, NOT YET INSTALLED			
7	30' x 150' Radial Stacker	C-G	427	PLANNED, NOT YET INSTALLED			
8	24" x 60' "Conveyor D"	C-D	274	PLANNED, NOT YET INSTALLED			
9	30" x 160' "Conveyor B"	C-B	721	PLANNED, NOT YET INSTALLED			
10	6' x 16' Triple Deck Screen	S-2	721	PLANNED, NOT YET INSTALLED			
11	4¼' Shorthead Cone Crusher	CR-3	274	PLANNED, NOT YET INSTALLED			
12	30" x 20' "Conveyor E"	C-E	721	PLANNED, NOT YET INSTALLED			
13	24" x 100' "Conveyor I"	C-I	20	PLANNED, NOT YET INSTALLED			
14	30" x 160' "Conveyor C"	C-C	192	PLANNED, NOT YET INSTALLED			
15	6' x 16' Triple Deck Screen	S-3	192	PLANNED, NOT YET INSTALLED			
16	24" x 100' "Conveyor J"	C-J	64	PLANNED, NOT YET INSTALLED			
17	24" x 100' "Conveyor K"	C-K	64	PLANNED, NOT YET INSTALLED			
18	24" x 100' "Conveyor L"	C-L	64	PLANNED, NOT YET INSTALLED			
19	44" x 32' Sand Screw	SS	NA	PLANNED, NOT YET INSTALLED			
20	24" x 100' "Conveyor H"	C-H	20	PLANNED, NOT YET INSTALLED			
21	24" x 30' "Conveyor M"	C-M	702	PLANNED, NOT YET INSTALLED			
22	30" x 20' "Conveyor B-1"	C-B1	274	PLANNED, NOT YET INSTALLED			
23	10 Yard Surge Bin	SB-1	274	PLANNED, NOT YET INSTALLED			
24	30" x 140' "Conveyor B-2"	C-B2	274	PLANNED, NOT YET INSTALLED			
25	5 Yard Hopper	H-1	32	PLANNED, NOT YET INSTALLED			
Note: Items 15-20 will be located in the wash plant area and will be exempt from testing.							



<p>McGILL MINE</p> <p>HEINS ROAD WORKMAN TOWNSHIP WILLIAMSBURG COUNTY, SOUTH CAROLINA</p> <p>FLOW DIAGRAM</p>	<p>McGILL MINE</p> <p>HEINS ROAD WORKMAN TOWNSHIP WILLIAMSBURG COUNTY, SOUTH CAROLINA</p> <p>FLOW DIAGRAM</p>	<p>McGILL MINE</p> <p>HEINS ROAD WORKMAN TOWNSHIP WILLIAMSBURG COUNTY, SOUTH CAROLINA</p> <p>FLOW DIAGRAM</p>	<p>McGILL MINE</p> <p>HEINS ROAD WORKMAN TOWNSHIP WILLIAMSBURG COUNTY, SOUTH CAROLINA</p> <p>FLOW DIAGRAM</p>	<p>McGILL MINE</p> <p>HEINS ROAD WORKMAN TOWNSHIP WILLIAMSBURG COUNTY, SOUTH CAROLINA</p> <p>FLOW DIAGRAM</p>	<p>McGILL MINE</p> <p>HEINS ROAD WORKMAN TOWNSHIP WILLIAMSBURG COUNTY, SOUTH CAROLINA</p> <p>FLOW DIAGRAM</p>
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**Mining
Form
MR-500**

**S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL
BUREAU OF LAND AND WASTE MANAGEMENT
DIVISION OF MINING AND SOLID WASTE PERMITTING
2600 Bull Street, Columbia, SC 29201
Telephone Number: (803) 896-4261 Fax Number: (803) 896-4001**

**RECLAMATION PLAN
DHEC FORM 500 DATE VERSION ADOPTED 7/1/94**

As required in Section 48-20-90 of the South Carolina Mining Act, "An operator shall submit with his application for an operating permit a proposed reclamation plan. The reclamation plan for an operating permit only must be furnished to the local soil and water conservation district in which the mining operation is to be conducted. The plan must include as a minimum each of the elements specified in the definition of 'reclamation plan' in Section 48-20-40 and information required by the department. The reclamation plan must provide that reclamation activities, particularly those relating to control of erosion, to the extent feasible, must be conducted simultaneously with mining operations and be initiated at the earliest practicable time after completion or termination of mining on a segment of the permitted land. The plan must provide that reclamation activities must be completed within two years after completion or termination of mining on each segment of the area for which an operation permit is requested unless a longer period specifically is permitted by the department."

I. APPLICANT INFORMATION

1. Name of Company: CCC Sod, LLC
2. Name of Proposed Mine: McGill Mine County: Williamsburg
3. Home Office Address: P.O. Box 527 910-385-4675
(Street and P.O. Box) (Telephone No.)
Newton Grove NC 28366 NA
(City) (State) (Zip Code) (Fax No.)
4. Local Office Address: 316 Hines Rd 910-385-4675
(Street and P.O. Box) (Telephone No.)
Greeleyville SC 29056 NA
(City) (State) (Zip Code) (Fax No.)
5. Name of company personnel and their title to be the contact for official business and correspondence: Clark Wooten, Manager
6. Location of Mine: 316 Hines Rd Greeleyville
State or County Hwy No. Nearest Town or City

II. ENVIRONMENTAL PROTECTION

1. Describe practices to protect adjacent resources such as roads, wildlife areas, woodland, cropland and others during mining and reclamation. A minimum 50 foot undisturbed vegetated buffer with an internal 50 foot wide 6.5 foot high vegetated berm together being a minimum 100 foot buffer along all property (mining limits) as shown on C2 and C5 permit drawings.
2. Describe proposed methods to limit significant adverse effects on adjacent surface water and groundwater resources. All runoff, process water, etc. will be directed into the mine excavation as indicated on the mine map (C4). Any water leaving the excavation will have had adequate time for any sediment load to settle. Groundwater resources will not be impacted outside the excavation.
3. Describe proposed methods to limit significant adverse effects on known significant cultural or historic sites within the proposed permitted area. There are no known significant cultural or historic sites within the proposed permitted area.

4. Describe method to prevent or eliminate conditions that could be hazardous to animal or fish life in or adjacent to the permitted area. Several interconnected "ponds" are used for the center pivot irrigation system. These ponds will not be impacted or disturbed by the proposed mining operation. The proposed permitted area will be reclaimed as ponds and wildlife habitat.
5. Describe how applicant will comply with State air quality and water quality standards as established by the S.C. Department of Health and Environmental Control. Air Quality Permit and NPDES Permit will both be obtained prior to any mining activity once the Mine Permit is obtained.

III. RECLAMATION OF AFFECTED AREA

6. State useful purpose(s) the affected land is being proposed for reclamation. More than one purpose may be checked, but information should be submitted to support the feasibility for each proposed purpose.

- | | |
|--|---|
| a. Lake or pond <input checked="" type="checkbox"/> 30 Acres | f. Grassland <input type="checkbox"/> |
| b. Agriculture <input type="checkbox"/> | g. Recreation <input checked="" type="checkbox"/> |
| c. Woodlands <input checked="" type="checkbox"/> | h. Wetlands <input type="checkbox"/> |
| d. Residential <input type="checkbox"/> | i. Park <input type="checkbox"/> |
| e. Commercial <input type="checkbox"/> | j. Other <input type="checkbox"/> |

7. State the final maximum surface gradient(s) (slope) in soil, sand, or other unconsolidated materials on reclaimed land. Surface gradients steeper than 3H:1V (18 degrees or 33 percent) may be required to submit geotechnical data and studies to demonstrate that the steeper slopes will remain stable following final reclamation.

The maximum surface gradient will be 3:1 or flatter.

8. How will the final slopes in unconsolidated material be accomplished? If the slope will be by backfilling, demonstrate that there is adequate material to accomplish the stated final gradient. If gradient is to be achieved by bringing in material from outside the permitted area, state the nature of the material and approximate quantities. If the gradient is to be achieved by grading, show that there is adequate area for grading to achieve gradient (i.e., adequate distance between the property line and edge of highwall). Operator should show calculations or other appropriate information to demonstrate that there is adequate materials in backfilling and grading to meet the requirements for final slope. Please see

sheet C5 in the permit drawings. All slopes will be no steeper than 3:1.

9. Describe the plan for revegetation or other surface treatment of affected area(s). The revegetation plan shall include but not be limited to the following: (a) planned soil test; (b) site preparation and fertilization; (c) seed or plant selection; (d) rate of seeding or amount of planting per acre; (e) maintenance. Please refer to sheet C5 in the permit drawings and C6 for the revegetation plan.

10. Provide, as a separate document, a closure plan of the mine and permitted facilities to prevent a release of contaminants from being harmful to the environment. A closure plan is not necessary for all mines, but is required where the possibility exists for (a) acid rock drainage; (b) where the National Pollutant Discharge Elimination Systems (NPDES) Permit has discharge limitation parameters other than pH and Total Suspended Solids (TSS); (c) chemically treated tailings or stockpiles (excludes fertilizer or lime for revegetation purposes). Please see sheet C5

"Reclamation Map" for closure plan. All drainage is into the mine excavation. No acid water will be produced as the limestone being mined neutralizes acid.

11. Method of control of contaminants and disposal of mine waste soil, rock, mineral, scrap, tailings, slimes, and other material directly connected with the mining, cleaning, and preparation of mineral substances mined and includes all waste materials deposited on or in the permit area from any source. No trash or scrap will be disposed on site. The site will be reclaimed as a pond or lake. No mine waste, soil, rock, mineral, scrap, tailings, slimes or other material will be wasted on site.

12. Method of reclaiming settling and/or sediment ponds. The settling and sediment pond(s) will become part of the mine excavation, thus the pond or lake after mining ceases.

13. Describe method of restoration or establishment of stream channels, stream banks and site drainage to a condition minimizing erosion, siltation and other pollution. Any channels created will be maintained with minimum 3:1 banks on side slopes. Disturbed areas adjacent channels will be vegetated.

14. What are the maintenance plans to insure that the reclamation practices established on the affected land will not deteriorate before released by the Department? Seeding and maintenance plan is shown on sheet C6.

15. For final reclamation, submit information about practices to provide for safety to persons and to adjoining property in all excavations. Identify areas of potential danger (vertical walls, unstable slopes, unstable surface on clay slimes, etc.) and provide appropriate safety provisions. These provisions can include but are not limited to setbacks, fencing. As shown on the mine permit drawings, a 50 foot undisturbed buffer with an interior 50 foot wide vegetated berm totalling 100 feet is provided.

16. What provisions will be taken to prevent noxious, odious, or foul pools of water from collecting and remaining on the mined area? For mines to be reclaimed as lakes or ponds, provide supporting information that a minimum water depth of four (4) feet on at least fifty percent (50%) of the pond surface area can be maintained. No standing water less than 4 feet will exist after reclamation.

17. Identify any structures (e.g. buildings, roads) that are proposed to remain as part of final reclamation. Provide justification for leaving any structures. *Please see mine permit draw maps C2, C4, C5. No structures will be left.*

- ✓ 18. Attach two (2) copies of a map of the area (referred to as the RECLAMATION MAP) that shows the reclamation practices and conservation practices to be implemented. The following should be shown:

- A. The outline of the proposed final limits of the excavation during the number of years for which the permit is requested.
- B. The approximate final surface gradient(s) and contour(s) of the area to be reclaimed. This would include the sides and bottoms of mines reclaimed ponds and lakes.
- C. The outline of the tailings disposal area.
- D. The outline of disposal areas for spoil and refuse (exclusive of tailings ponds).
- E. The approximate location of the mean shore line of any impoundment or water body and inlet and/or outlet structures which will remain upon final reclamation.
- F. The approximate locations of access roads, haul roads, ramps or buildings which will remain upon final reclamation.
- G. The approximate locations of various vegetative treatments.
- H. The proposed locations of re-established streams, ditches or drainage channels to provide for site drainage.
- I. The proposed locations of diversions, terraces, silt fences, brush barriers or other Best Management Practices to be used for preventing or controlling erosion and off-site siltation.
- J. Proposed locations of the measures to provide safety to persons and adjoining property.
- K. Segments of the mine that can be mined and reclaimed as an ongoing basis.
- L. The boundaries of the permitted area.
- M. The boundaries of the affected area for the anticipated life of the mine.
- N. The boundaries of the 100-year floodplain, where appropriate.
- O. Identify sections of mine where the final surface gradient will be achieved by grading and/or backfilling.
- P. A legend showing the name of the applicant, the name of the proposed mine, the north arrow, the county, the scale, the date of preparation and the name and title of the person who prepared the map.

THE REQUIRED RECLAMATION MAP SHALL HAVE A NEAT, LEGIBLE APPEARANCE AND BE OF SUFFICIENT SCALE TO CLEARLY SHOW THE REQUIRED INFORMATION LISTED ABOVE. THE BASE FOR THE MAP SHALL BE EITHER A SPECIALLY PREPARED LINE DRAWING, AERIAL PHOTOGRAPH, ENLARGED USGS TOPOGRAPHIC MAP OR A RECENTLY PREPARED PLAT. RECLAMATION MAP SHOULD BE THE SAME SCALE USED FOR THE SITE MAP.

IV. SCHEDULE FOR IMPLEMENTATION OF CONSERVATION AND RECLAMATION PRACTICES

19. As stated in Section 48-20-90 of the S.C. Mining Act, reclamation activities, to the extent feasible, must be conducted simultaneously with mining operations. Identify which areas or segments of the mine are not feasible to reclaim simultaneously with mining. Provide reasons why reclamation can not proceed simultaneously with mining in these areas.

- ### SCHEDULE FOR IMPLEMENTING CONSERVATION AND RECLAMATION PRACTICES

* Completed by the Department

YOU ARE NOTIFIED THAT:

- 1) You, the operator, must file an application to modify the reclamation plan in the event actual reclamation varies from the set forth hereinabove; and
- 2) If at any time it appears to the Department that the activities under the reclamation plan are failing to achieve the purposes and requirements of the S.C. Mining Act, the Department may modify the RECLAMATION PLAN in accordance to Section 48-20-150.

O. F. Patterson, III, AGENT
Signature of Applicant/Operator or his Authorized Representative

O. F. PATTERSON, III
Printed Name of Applicant/Operator or his Authorized Representative

AGENT
Title

8-25-2015
Date

Department Use Only

Permit No.: _____ Date Application Approved: _____ Date Bond Rec'd: _____

Bond Amount: _____ Blanket or Single Bond: _____ Permit Issuance Date: _____

ACTION TAKEN ON THIS RECLAMATION PLAN

_____ Approved _____ Denied _____ Approved with Additional Terms and Conditions

By: _____
DIVISION DIRECTOR

Date: _____